BOOK REVIEW

Experimental analysis of insect behaviour, edited by L. Barton Browne. 1974. Springer-Verlag New York, Inc., 175 Fifth Avenue, New York, NY 10010. Hardbound, 366p., $15.40.

This excellent volume is the result of a Symposium—"Experimental Analysis of Insect Behaviour," held during the 14th International Congress of Entomology at Canberra, Australia, in 1972. Among the 25 papers are several contributions from workers who, although invited, did not attend the conference. The editor is convinced that the papers provide a "great variety of approaches to the experimental analysis of insect behaviour," and this reviewer agrees. In addition to purely behavioral approaches, purely physiological and electrophysiological approaches are presented. There seems to be little question that insect behavior and neuronal topography is much more complex than generally believed just a few years ago. It is interesting to note, however, that Fabre's classic writings are referred to several times throughout the volume. About a quarter of the papers deal with behavioral aspects of insect flight and/or migration, and among the remaining are papers dealing with behavioral aspects of reproduction, feeding, orientation, and learning. Coleopterists will be pleased to know that beetles served as the subjects of research for two of the papers—(1) "Chemical influence on feeding behavior of *Leptinotarsa* beetles," by T. H. Hsiao, and (2) "Migratory behaviour of the female of the common cockchafer *Melolontha melolontha* L. and its neuroendocrine regulation," by M. M. C. Stengel. The text has been produced from camera-ready manuscript so it has a typed rather than a printed appearance. Nonetheless, the book is reasonably attractive, contains a wealth of information and references on insect ethology, and is very reasonably priced.

—Paul P. Shubeck